0.00

Memo

QC

Quality Control

			DQA:	Date:	
NCR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE			

										QA Closed:	Date	2:
Work Orde	er:				DISPOSITION				AGAINST D	EPARTMENT,	/PROCESS	
					Rework	1		Skid-tube	Crosstube	7	Water Jet	Engineering
Part N	lo.				Scrap	1	!	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
					Use-as-is	1	Thern	noforming	Finishing		re/Packaging	Other
NCR N	lo.				Work Order Update	1		Large Fab	Composite	1	Supplier	
										-		
Root				Descri	ption of work order update	t	nitial		ction	Sign &		
Cause	Date	Step	Qty	•	or Non-conformance	Chi	ef Eng	Desc	cription	Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling												
Operator							ļ		•	1		
Material		ł					•					
Setup												
Other		ŀ					A .					
Process												
Supplier							i					
Training												
Unapproved												
					F	AULT	CATE	GORY				
Landir	ng Gear				General				_	_		·
	Bending				Bend		Grain		L	Ovalized		Pressure/Forced
	Centre N	ot Concer	ntric to (	o/s	BOM/Route	L	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	∐'	nspecti	on Incomplete		Part Incorre	ct	Weld
	Crushed/	Crimped.			Burrs		nstruct	ions Incomplete/	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination		√lainte	nance		Part Moved		<del>-</del>
	Heat Trea	at ´			Countersink		Mislabe	eled		Positioned V	Vrong	
	Inspectio	n Strip in	Tube		Cut Too Short		Misreac	i	Γ	Power Loss/	Surge	Other
[	Ripples in	Bend			Drill Holes	П	Offset			_	_	
ſ	Torque W	/aves in E	xtrusior	ı [	Drawing		Out of (	Calibration				
[	Turning S	equence			Finish	$\Box$	Out of S	Sequence				
	Wave/Tw	ist in Tub	e		Folio	П	Outside	Dimensions				

Work Order ID 95937 \*95937\* Page 2 January-21-13 10:11:25 AM D2175-2 Accept \*N900040100\* Setup Start Item ID: **Revision ID:** Item Name: Angle RH **Start Date:** 1/16/13 Start Qty: 6.00 **Cust Item ID:** Req'd Qty: 6.00 Required Date: 1/30/13 **Customer:** Reference: Run Process Plan: \_\_\_\_\_ Date: \_\_\_\_ **Tooling:** Approvals: Date: Stop Date: SPC (Y/N): QC: Date: Tool # Plan Reject Sequence ID/ **Operation** Set Up/ Tool ID Accept Reject Insp. Work Center ID Description Qty Qty Number Stamp Code **Run Hours** QC8- Inspect parts - second check 120 \*120\* QC Memo Quality Control 0.00 130 Small Fab \*120\* Small Fab 0.00 Memo Small Fab Deburr Stack 0.00 140 NC BRAKE \*140\* Brake NC 0.00 Memo

Brake NC

Form as per Dwg D2175

 $\overline{\mathcal{P}}$ 

NCR:	Vac	1	No
NUK:	Yes	/	- INC

## **WORK ORDER NON-CONFORMANCE / UPDATE**

16	. 1
DQA: (Date: 13/08/21	
1/1	

									QA Closed:	Date:	13/5/15
Work Orde	er: <i>G</i>	537			DISPOSITION			AGAINST DE	EPARTMENT,	/PROCESS	
Part N	No. D 3	¥75	006	<u> </u>	Rework Scrap Use-as-is Work Order Update	The	Skid-tube  Machining ermoforming  Large Fab	Crosstube Small Fab Finishing Composite	⊣	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root	·			Descri	ption of work order update	Initia	Ι Δ	Action	Sign &		ζ,
Cause	Date	Step	Qty		or Non-conformance	Chief E	ng Des	scription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process	13/23/2°	130	9 pm	I who	spece prack	0AS 16 13/01/	B + deste	Sery or replace	3 १३/ग्रि	13.3 26	0AS 16, 25/242 (3/24/12
Supplier Training Unapproved				P.C. Pro	coss not deburn,			5.20			
					F.	AULT CA	TEGORY	$-//\sqrt{\lambda}$	/		
Landin	Bending Centre	Not Conce	ntric to	o/s	General Bend BOM/Route	Grai Hard	n Iware		Ovalized Over/Under	tolerance	Pressure/Forced Temperature/Cure
	Cracks				Broken/Damaged	Inspe	ection Incomplete		Part Incorre	ct	Weld
		/Crimped			Burrs	$\blacksquare$	uctions Incomplete	2/Lunclear	Part Lost/M	_	Wrong Stock Pulled
	Cuffs				Contamination	<del></del>	ntenance	<u> </u>	Part Moved		
-	Heat Tre			· .	Countersink	<del></del>	abeled	<u> </u>	Positioned V		1
	<del> </del> '	on Strip in	Tube	<u> </u>	Cut Too Short	Misr		L	Power Loss/	Surge	Other
	Ripples			<u> </u>	Drill Holes	Offse					
-		Waves in I		n	Drawing	$\vdash$	of Calibration				
-	:	Sequence		-	Finish	${f oxed{f oxed{f eta}}}$	of Sequence				
L	[wave/1	wist in Tul	oe		Folio	Louts	ide Dimensions				

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				· · · · · · · · · · · · · · · · · · ·							· · ·
Work Orde				*950	37*						Page 3
Item ID: Revision ID: Item Name:	D2175-2 Angle RH			Accept	*N900	<b>040</b>	100	)* s	etup Sta	I A	S1* S2*
Start Date: "Required Date: Reference:	1/16/13 1/30/13	Start Qty: 6.00 Req'd Qty: 6.00	*6* *6*		Cust Item I Customer:	D:					
Approvals:	Process P	Plan:	Date:	Tooling: SPC (Y/N):		nte:		R	un Sta Sto	1/1	R1* R2*
Sequence ID/ Work Center II  150  *150* QC Quality Control	)	Operation Description QC5- Inspect part comp	oleteness to step on W/O	Set Up/ Run Hours 0.00 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 *160* HandFinish		Chemical Conversion C	Coat per QSI005 4.1	0.00				4	M	333	37

170

Hand Finishing

Quality Control

QC7-Inspect Chemical Conversion Coat

Memo

									DQA:	Date:	
NCR: Y	es / No				WORK ORDER NON-	CONFOR	MANCE / UPI	DATE			-
									QA Closed:	Date:	
Work Orde	ır.				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
WOIK OIGE					Rework	<b>¬</b> ]	Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	lo				Scrap	-	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
, ,,,					Use-as-is	Ther	moforming	Finishing	-	re/Packaging	Other
NCR N	lo.		•	÷	Work Order Update		Large Fab	Composite	1	Supplier	1   1
Root				Descri	ption of work order update	Initial	Act	ion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	g Descr	ription	Date	Verification	QC Inspector
oc/Data									•		
quip/Tooling											
Operator						]					
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etup											
Other								~			
rocess	_										
upplier											
raining											
Inapproved	·	1	<u></u>	<u></u>							
			·			FAULT CATI	GORY		· · · · · · · · · · · · · · · · · · ·	, -	
Landir T	ng Gear				General	П.		<del>  -</del>	1	<del></del>	٦
}	Bending				Bend	Grain		_	Ovalized	<u> </u>	Pressure/Forced
}	<del></del>	ot Conce	ntric to	o/s	BOM/Route	Hardw		<u> </u>	Over/Under	_	Temperature/Cure
.	Cracks	<b>.</b>		<u> </u>	Broken/Damaged	$\blacksquare$	tion Incomplete		Part Incorre	<u> </u>	Weld
}	Crushed/	'Crimped.		<u> </u>	Burrs	$\vdash$	tions Incomplete/L	Jnclear	Part Lost/M	issing	Wrong Stock Pulled
-	Cuffs			<u> </u>	Contamination	$\vdash$	enance	-	Part Moved		
	Heat Trea	at			Countersink	Mislab	eled		Positioned V	Vrong	

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

Folio

Work Orde				*959	37*							Page 4	
Item ID: Revision ID: Item Name:	D2175-2 Angle RH			Accept	*N900	<u>040</u>	100	)*	Setup	Start Stop	171	S1* S2*	
Start Date: Required Date: Reference:	1/16/13 1/30/13	Start Qty: 6.00 Req'd Qty: 6.00	*6* *6*		Cust Item I Customer:	D:							
Approvals:	Process	Plan:	Date:	Tooling:	Da	nte:	-		Run	Start Stop	!/	R1*	
	QC:		Date:	SPC (Y/N):	Da	ıte:				оюр	*N	R2*	
Sequence ID/ Work Center II	)	Operation Description Identify as per dwg & Sto	ck Location & W	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accep Qty	t Re Qt	•	Reject Number	Insp. Stamp	
*180* Packaging		Memo		0.00				44	·	- **		28 -	<b>)</b>
Packaging				·						,	/:	5-5-6	ナ
190		QC21- Final Inspection -	Work Order Release	0.00						10	11/2	$A \cap$	

0.00

Memo

\*190\*

Quality Control

MB-04-2

									DQA:	Date:	
NCR:	res / N	o			WORK ORDER NON-O	CONFORM	MANCE / UP	DATE			
							- · · · · · · · · - · · - · · - · · - · · - · · - · · - · · - · · - · · - · · - · · - · · - · · · · · ·		QA Closed:	Date:	
Work Orde	ar.				DISPOSITION			AGAINST DE	PARTMENT,	/PROCESS	
Part N	lo				Rework Scrap Use-as-is	Thern	Skid-tube Machining noforming	Crosstube Small Fab Finishing	1	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
NCR N	NO				Work Order Update	ا	Large Fab	Composite	ļ	3upplier[	J L
Root	,			Descri	ption of work order update	Initial	Act	tion	Sign &		
Cause	Date	Step	Qty	(	or Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data					<b>"</b>						
Equip/Tooling							,				
Operator											
Material											
Setup											ļ
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Process											
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Training											
Unapproved											
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Landii	ng Gear				General		-		_		_
	Bendir	g			Bend .	Grain			Ovalized		Pressure/Forced
	Centre	Not Conce	ntric to	o/s	BOM/Route	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspecti	ion Incomplete		Part Incorre	ct	Weld
	Crushe	d/Crimped			Burrs	Instruct	ions Incomplete/I	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
	Cuffs				Contamination	Mainte	enance		Part Moved	<b>L</b>	-
	Heat T	reat			Countersink	Mislabe	led		Positioned V	Vrong	
Ì	Inspec	ion Strip ir	Tube		Cut Too Short	Misread	i		Power Loss/	Surge	Other
	Ripples	in Bend			Drill Holes	Offset			-	<u> </u>	

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

## **Picklist Print**

January-21-13 10:11:25 AM

Work Order ID:

95937

Parent Item:

D2175-2

Parent Item Name:

Angle RH

**Start Date: 1/16/13** 

Required Date: 1/30/13

Start Qty: 6.00

Required Qty: 6.00

Comments:

IPP E04.06.09ReformatKJ/RF

IPP Rev:F 06-04-28 Manufactured on Water Jet JLM

IPP Rev:G As per Rev E 06-11-22 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M2024T3S.063 2024-T3 .063 sheet		Purchased	No			100	sf	212.7400	0.4722	2.9823156		13	13·25
				<b>Location</b>		Loc Qty	<u>Lo</u>	c Code					
				MAT022		212.74				<del></del>			
				1199	16	0.2							
				12119	97	21.34							
				12309	96	11.4							
				1236	54	12.8							
				1237	01_	167							

Page

NCR: Y	'es / No				WORK ORDER NON-O	CON	FOR	MANCE / UPI	DATE			
	,							•		QA Closed:	Date	e:
Work Orde	er:				DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part N NCR N					Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube  Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
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Root					ption of work order update	1	nitial		tion	Sign &		
Cause	Date	Step	Qty	(	or Non-conformance	Chi	ef Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup	_											
Other												
Process												
Supplier	_										!	·
Training		1										
Unapproved							CATE	CORY				<u> </u>
Landin	ng Gear				General	AULI	CATE	GURY				
Landin F	Bending				Bend		Grain			Ovalized	Г	Pressure/Forced
-	<b>→</b>	ot Concer	atric to C	\s	BOM/Route		Hardwa	ero.	<u> </u>	Over/Under	tolerance	Temperature/Cure
}	Cracks	ot concer	itile to C	″³   <del>-</del>	Broken/Damaged	$\vdash$		ion Incomplete	-	Part Incorred		Weld
-	Crushed/	Crimped		-	Burrs	$\vdash$	•	ions Incomplete/l	Inclear	Part Lost/Mi	<b>⊢</b>	Wrong Stock Pulled
 	Cuffs	crimpeu,		-	Contamination	-		enance		Part Moved	33111g	
t	Heat Trea	ət			Countersink	<b>—</b>	Mislabe			Positioned V	Vrong	
<u> </u>	Inspection Strip in Tube				Cut Too Short	-	Misread			Power Loss/		Other
	Ripples in	•		-	Drill Holes	-	Offset	-	<u> </u>	1. 2.1.2. 2033/		1
-		Vaves in E	xtrusion		Drawing	$\vdash$		Calibration			-	
	Turning S				Finish	$\mathbf{H}$		Sequence				

Outside Dimensions

DQA:

Date:

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

DART AEROSPACE LTD	Work Order:	95937
Description: Angle	Part Number:	D2175-1/-2
Inspection Dwg: D2175 Rev: E		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

Х	First Article		Prototype
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Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
12.650	+/-0.010	12.650	1/		7	MM-02 MM-01
R0.35	+/-0.030	R 0.35	1		R6	7 7007 0 -
2.915	+/-0.010	2.925	V		V	Mal 01
50°	+/-0.5°	50°	/		AF	7 //27 0 /
0.300	+/-0.010	0.304	1		V	
1.050 Pitch	+/-0.010	1.050	V	-	V	
10.500	+/-0.010	10.500	/		T	
11.550	+/-0.010	11.550	V		7	
0.550	+/-0.010	0.553			1/	
0.900	+/-0.010	0.905	V	,	V	
0.063 thick	+/-0.010	0.064	V		V	
Grain Direction	N/A		1			
Ø0.128	+0.005/-0.001	0.127	/		V	
Ø0.172	+0.005/-0.001	0.171			V	-

			6/2)		
Measured by:	Mul	Audited by:	2	Prototype Approval:	N/A
Date:	13.03.25	Date:	133.25	Date:	N/A

	Rev	Date	Change	Revised by	Approved
	Α	04.08.12	New Issue	KJ/JLM .	1
İ	В	07.03.23	Dimensions revised per Dwg rev. E	KJ/JLM A	71
				1	<i>\</i>